

Raychem

Dpm 5059-1

PRODUCT SAFETY DATA AND INFORMATION

ISSUE NO: 2

EFFECTIVE DATE: September 1982

SERIAL NO: RAY/5001

GENERAL INFORMATION

Product Name: Raychem Solder Sleeve

D10X-XX
D144-XX
Product Code: D142-XX*

Manufacturer: RAYCHEM CORPORATION
300 CONSTITUTION DRIVE
MENLO PARK, CA 94025

Telephone No. 415/361-3333

PRODUCT DESCRIPTION

D10X-XX are heat shrinkable, radiation cross-linked, modified polyvinylidene fluoride
D144-XX transparent blue sleeves with prefluxed Sn63 solder preforms and thermoplastic adhesive inserts. *D142-XX are similar, except that the sleeve is clear, natural colored and the solder has a composition 51.2% tin, 30.6% lead and 18.2% cadmium.

PHYSICAL PROPERTIES

Appearance and Odor: Clear plastic sleeves with colored inserts and ring of solder - no odor.

Specific Gravity: Sleeve 1.6

Solubility in Water: Negligible

Flash Point (°F): N/A

Volatility at 23°C (%W/w): Negligible

PHYSIOLOGICAL PROPERTIES

Acute Oral Toxicity: Not known. However, solder contains lead and in the case of D142-XX cadmium also.

T.L.V.: Lead as fume or dust 0.05 mg/m³
Cadmium as fume or dust 0.05 mg/m³ ACGIH 1981

Local Effects on Eyes and Skin: Under normal circumstances - none.

The product as supplied is believed to present no toxic hazard per se.

STORAGE, HANDLING AND PREVENTATIVE MEASURES

Storage: Cool dry environment

Incompatible Materials: None known

Special Precautions: Avoid skin contact with the solder. Avoid inhaling any fumes given off if the product is heated to decomposition as shown by a darkening and browning of the sleeve.

Thermal Decomposition Products: Thermal decomposition is not significant for short-term exposures up to 350°C which is well above normal shrink-down temperatures of 180-230°C. When heated for prolonged periods at this temperature or to decomposition (420°C) then, in common with all polymeric materials, toxic fumes may be evolved. These will include carbon monoxide and hydrogen fluoride.

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STORAGE, HANDLING AND PREVENTATIVE MEASURES (cont.)

Ventilation: In common with good industrial hygiene practice, ensure adequate ventilation during all soldering operations or heating of polymeric materials.

Protective Clothing and Equipment: Safety glasses recommended in most industrial environments.

Disposal: Normal methods based on Federal, State or Local codes.

Installation: See appropriate Raychem Installation guide.

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Treat symptomatically

Skin: Treat symptomatically

Ingestion: Treat symptomatically

Spillage: Sweep or pick up for disposal

Fire: See special precautions

Special Precautions: Toxic fumes may be evolved in a fire. Firemen should wear self-contained breathing apparatus in enclosed areas.

Extinguishing Media: Foam, water, or dry chemical (CO₂)

NOTICE:

This information is supplied in accordance with U.S. Bureau of Labor Standards and includes applicable portions of information requested in OSHA-Form 20. Users are advised to ensure that this information is brought to the attention of their employees handling the product. The information given herein is believed to be reliable. However, Raychem makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. Raychem's obligations shall be only as set forth in Raychem's standard terms and conditions of sale for this product and in no case will Raychem be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product.

Users of Raychem products should make their own evaluation to determine the suitability of each such product for the specific application and to establish safe handling and installation procedures.

Data Sheet Approved By:

Gloria J. Van der Heiden
Gloria J. Van der Heiden

Date: Jan. 1982

Group I

Solder Sleeve Terminators

Sleeve: Polyvinylidene Fluoride (Kynar)

Solder: Tin/Lead or Tin/Silver

Product families included:

D-10X (X = 0-5 & 7); D-108; D-129; D-133; D-136; D-141; D-144; D-146;
D-148; D-151; D-153; D-155; D-181; D-183; D-7XX; S01; S02.

Exceptions: following devices have polyolefin sleeves:

D-10X-09; D-101-0092

D-110-28; -33; -39; -48; -0113.

D-128-01

D-133-09; -69

D-136-04; -18; -20

D-141-47

D-144-61; -62; -64; -65; -75/-79; -0080/0083; 0084/0091; 0101/0131

D-710-00

Group II

Solder Sleeve Terminators

Sleeve: Polyvinylidene Fluoride (Kynar)

Solder: Tin/Lead/Cadmium

Product families included:

D-131 Series with two digit designators

D-142

Exceptions: following devices have polyolefin sleeves:

D-131 series with four digit designators

D-142-58/-60; -67; -68; -81

Group III (includes exceptions listed in Groups I and II)

Solder Sleeve Terminators

Sleeve: Polyolefin

Solder: Tin/Lead or Tin/Lead/Cadmium

D-10X-09; D-101-0092

D-110-28; -33; -39; -48; -0113

D-128-01

D-133-09; -69

D-136-04; -18; -20

D-141-47

D-144-61; -62; -64; -75/-79; -0080/-0091-0101/0131

D-131 Series with four (4) digit designators, i.e., D-131-XXXX

D-134 All

D-142-58/-60; -67; -68; -81

D-145 All

D-146-75

D-147 All

D-710-00

Utilize Tin/Lead/Cadmium Solder

Also, none of the products listed have mercury in them.